QC ABSTRACT

NAME OF WORK: Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

8	RCC(M20)	Compressive Strength(7days and 28days)	7 set /100-200 cum	168.47	14	14
9	GSB	SIEVE ANALYSIS	One Test		1	1
10	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
11	BM	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
12	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
13	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
14	TACK COAT	Rate of spread	One Test		1	1

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-08-02-03** **Date: 11-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.51	_
2	Finess by Air permeablity method (m^2/kg,Min)	297.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	_
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	235 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2.0 mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-08-02-03** **Date: 07-07-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	09-06-2022
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Technical Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-08-02-03** **Date: 11-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	1078	1078	7.2	92.8	90-100
3	20 mm	5851	6929	46.2	53.8	30-70
4	10 mm	5019	11948	79.7	20.3	10-35
5	4.75 mm	2721	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-08-02-03** **Date: 11-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	13.1	
3	Specific Gravity	2.61	_
4	Bulk Density(Loose) (Kg/l)	1.41	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.17	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-08-02-03** **Date: 10-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-06-2022

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	287	287	5.7	94.3	90-100
3	10 mm	2587	2874	57.5	42.5	25-55
4	4.75 mm	1881	4755	95.1	4.9	0-10
5	Pan	245	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-08-02-03** **Date: 10-06-2022**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.1**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.2**	
3	Specific Gravity	**2.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.44**	_
5	Bulk Density(Compacted) (Kg/l)	**1.51**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**23.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**21.8**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-08-02-03** **Date: 10-06-2022**

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.14	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	5.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-08-02-03** **Date: 10-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type	:	Kamadhenu
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	09-06-2022

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Kamadhenu	Fe500	8	0.393	522	662	21.5%	Satisfactory	Satisfactory
2	Kamadhenu	Fe500	10	0.615	532	685	21.0%	Satisfactory	Satisfactory
3	Kamadhenu	Fe500	12	0.884	545	693	21.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-08-02-03** **Date: 13-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type /Size	:	Precast Cover Slab - 100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/06/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.03	1.253	4477	85.2	19.0	17.7	22.1
2	Cover Slab-2	75.48	100.02	1.254	4474	88.1	19.7	18.3	22.9
3	Cover Slab-3	75.49	100.01	1.233	4475	83.7	18.7	17.4	21.7

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2022-08-02-03
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-06-2022
Sample Type /Size	:	Precast Cover Slab - 250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	08/06/2022

Date: 13-06-2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.58	250.01	3.852	31592	563.8	17.8	16.6	20.7
2	Cover Slab-2	200.49	250.03	3.796	31564	572.4	18.1	16.9	21.1
3	Cover Slab-3	200.51	250.02	3.863	31570	592.4	18.8	17.5	21.8

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-02-03** **Date: 20/06/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-2022

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	20/06/2022	150.07 X 151.73 X 151.02	22770	8.821	416.6	18.3	18.3
2	Drain Bottom Raft	M20	13/06/2022	20/06/2022	149.64 X 149.67 X 149.64	22396	8.821	404.2	18.0	
3	Drain Bottom Raft	M20	13/06/2022	20/06/2022	151.95 X 151.36 X 151.52	22999	8.358	424.4	18.5	

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ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

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Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-02-03** **Date: 11/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-2022

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	11/07/2022	150.24 X 151.39 X 150.41	22745	8.306	533.8	23.5	23.1
2	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.76 X 150.31 X 149.37	22810	8.864	511.0	22.4	
3	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.40 X 149.33 X 149.36	22608	8.849	527.9	23.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

CIVIL Pro Sig. Date. BANGALORE

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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-08-02-03** **Date: 20/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-2022
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	20/06/2022	149.99 X 150.18 X 150.79	22525	8.469	418.6	18.6	18.4
2	Drain Bottom Raft	M20	13/06/2022	20/06/2022	149.16 X 151.73 X 149.65	22631	8.181	409.5	18.1	
3	Drain Bottom Raft	M20	13/06/2022	20/06/2022	149.04 X 150.97 X 149.78	22500	8.517	414.0	18.4	

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Bruhath Bengaluru Mahanagara Palike

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-02-03** **Date: 11/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-2022

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.78 X 149.32 X 150.91	22664	8.354	531.1	23.4	23.1
2	Drain Bottom Raft	M20	13/06/2022	11/07/2022	150.79 X 150.05 X 149.80	22626	8.201	512.3	22.6	
3	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.69 X 149.43 X 150.61	22666	9.056	528.5	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-02-03** **Date: 20/06/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-2022

Customer ID : Drain Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	20/06/2022	150.72 X 151.23 X 151.63	22794	8.168	422.2	18.5	18.5
2	Drain Bottom Raft	M20	13/06/2022	20/06/2022	150.80 X 151.73 X 150.16	22881	8.363	428.7	18.7	
3	Drain Bottom Raft	M20	13/06/2022	20/06/2022	150.28 X 149.09 X 149.77	22405	8.838	410.5	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-08-02-03** **Date: 11/07/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-2022
Customer ID	:	Drain Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.39 X 151.27 X 151.61	22900	8.968	539.7	23.6	23.0
2	Drain Bottom Raft	M20	13/06/2022	11/07/2022	151.91 X 151.19 X 150.71	22967	8.293	508.9	22.2	
3	Drain Bottom Raft	M20	13/06/2022	11/07/2022	150.24 X 150.63 X 150.13	22632	8.474	527.7	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-02-03 **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	15/06/2022	22/06/2022	151.55 X 151.99 X 150.96	23034	8.829	421.4	18.3	18.2
2	Drain Side Wall	M20	15/06/2022	22/06/2022	150.08 X 149.22 X 150.58	22395	8.501	404.2	18.0	
3	Drain Side Wall	M20	15/06/2022	22/06/2022	149.37 X 150.47 X 150.33	22476	8.991	410.4	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-08-02-03** **Date: 13/07/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	15/06/2022	13/07/2022	151.73 X 151.04 X 149.66	22917	8.575	547.3	23.9	23.3
2	Drain Side Wall	M20	15/06/2022	13/07/2022	150.16 X 151.35 X 149.62	22727	8.716	508.7	22.4	
3	Drain Side Wall	M20	15/06/2022	13/07/2022	151.83 X 151.46 X 150.06	22996	9.017	541.7	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-02-03 **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	15/06/2022	22/06/2022	151.61 X 150.82 X 149.36	22865	8.169	413.4	18.1	18.3
2	Drain Side Wall	M20	15/06/2022	22/06/2022	150.12 X 149.72 X 151.83	22476	8.730	408.4	18.2	
3	Drain Side Wall	M20	15/06/2022	22/06/2022	150.83 X 151.58 X 151.43	22863	8.411	425.3	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-02-03 **Date: 13/07/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Drain Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall	M20	15/06/2022	13/07/2022	149.15 X 150.65 X 149.85	22470	8.854	521.1	23.2	22.9
2	Drain Side Wall	M20	15/06/2022	13/07/2022	151.88 X 150.34 X 149.20	22834	8.300	516.2	22.6	
3	Drain Side Wall	M20	15/06/2022	13/07/2022	149.73 X 149.71 X 151.40	22416	8.442	516.5	23.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-08-02-03** **Date: 20/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-2022
Customer ID	:	Culvert Bottom Raft
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft	M20	13/06/2022	20/06/2022	150.06 X 151.94 X 151.47	22799	8.525	424.6	18.6	18.6
2	Culvert Bottom Raft	M20	13/06/2022	20/06/2022	149.47 X 149.77 X 151.11	22387	8.625	415.4	18.6	
3	Culvert Bottom Raft	M20	13/06/2022	20/06/2022	150.65 X 151.92 X 149.05	22887	8.256	429.5	18.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-08-02-03** **Date: 11/07/2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer's Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-2022

Customer ID : Culvert Bottom Raft

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Raft	M20	13/06/2022	11/07/2022	149.05 X 151.97 X 151.99	22650	8.707	529.5	23.4	23.2
2	Culvert Bottom Raft	M20	13/06/2022	11/07/2022	151.86 X 151.14 X 150.87	22953	8.352	521.6	22.7	
3	Culvert Bottom Raft	M20	13/06/2022	11/07/2022	151.82 X 149.92 X 151.03	22761	8.242	536.6	23.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-08-02-03** **Date: 22/06/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Culvert Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	22/06/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall	M20	15/06/2022	22/06/2022	149.49 X 150.14 X 150.64	22444	8.386	411.3	18.3	18.6
2	Culvert Side Wall	M20	15/06/2022	22/06/2022	151.99 X 151.94 X 151.64	23093	8.567	430.5	18.6	
3	Culvert Side Wall	M20	15/06/2022	22/06/2022	149.69 X 149.14 X 149.46	22325	8.392	421.9	18.9	

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Technical Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2022-08-02-03 **Date: 13/07/2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-06-2022
Customer ID	:	Culvert Side Wall
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall	M20	15/06/2022	13/07/2022	150.68 X 150.01 X 149.49	22605	8.577	525.5	23.2	23.0
2	Culvert Side Wall	M20	15/06/2022	13/07/2022	150.77 X 150.77 X 151.55	22732	8.875	508.3	22.4	
3	Culvert Side Wall	M20	15/06/2022	13/07/2022	150.93 X 150.36 X 151.13	22694	8.490	533.3	23.5	

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2019-02-15-31** **Date: 16-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-06-2022

Type of Mix : GSB (Granular Sub Base)

Date of Test : 14-06-2022

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0.0	100.0	100
53	384	384	3.8	96.2	80-100
26.5	2483	2867	28.7	71.3	55-90
9.5	1950	4817	48.2	51.8	35-65
4.75	1966	6783	67.8	32.2	25-50
2.36	1475	8258	82.6	17.4	10-20
0.85	1194	9452	94.5	5.5	2-10
0.425	152	9604	96.0	4.0	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	22.01%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

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Technical Manager

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	CP-RW-2022-08-02-03 **Date: 20-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	18-06-2022
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2072	2370	23.7	76.3	60-80
11.2	2349	4719	47.2	52.8	40-60
4.75	2217	6936	69.4	30.6	25-40
2.36	1754	8690	86.9	13.1	15-30
0.6	228	8918	89.2	10.8	8-22
0.075	898	9816	98.2	1.8	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 22-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	20-06-2022
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2072	2370	23.7	76.3	60-80
11.2	2349	4719	47.2	52.8	40-60
4.75	2217	6936	69.4	30.6	25-40
2.36	1754	8690	86.9	13.1	15-30
0.6	228	8918	89.2	10.8	8-22
0.075	898	9816	98.2	1.8	0-5

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Technical Manager

End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 20-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Type of Mix	:	WMM (Wet Mix Macadam)
Date of Test	:	18-06-2022
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2072	2370	23.7	76.3	60-80
11.2	2349	4719	47.2	52.8	40-60
4.75	2217	6936	69.4	30.6	25-40
2.36	1754	8690	86.9	13.1	15-30
0.6	228	8918	89.2	10.8	8-22
0.075	898	9816	98.2	1.8	0-5

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-08-02-03** **Date: 22-06-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-06-2022

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 20-06-2022

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	298	298	3.0	97.0	95-100
22.4	2072	2370	23.7	76.3	60-80
11.2	2349	4719	47.2	52.8	40-60
4.75	2217	6936	69.4	30.6	25-40
2.36	1754	8690	86.9	13.1	15-30
0.6	228	8918	89.2	10.8	8-22
0.075	898	9816	98.2	1.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 20-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	18-06-2022

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.8	305.4
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	61.2	65.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	244.1	240.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.3
5	Aggregate impact value	(B/A)*100	20.0	21.3
6	Aggregate impact value (Mean of two tests)	Pecentage	20.6	

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End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 20-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	18-06-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	22.8%	

* The results obtained are satisfactory as per standard requirements.

Note:-

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Technical Manager

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Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike

End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 20-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-06-2022
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	18-06-2022

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.4%	
Combined Flakiness and Elongation Index for WMM	22.8%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 22-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer's Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	20-06-2022
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	20-06-2022

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**65**	60 to 70
2	Softening Point, °C	**52.2**	Min. 40°C
3	Ductility, cm	**95**	Min. 75cm
4	Flash point, °C	**232**	Min. 220°C
	Fire point, °C	**248**	

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TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 27-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-2022
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of Test	:	23-06-2022
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	165	165	3.3	96.7	90-100
13.2	512	677	13.5	86.5	56-88
4.75	2759	3436	68.7	31.3	16-36
2.36	911	4347	86.9	13.1	4-19
0.3	358	4705	94.1	5.9	2-10
0.075	232	4937	98.7	1.3	0-8
PAN	63	5000	100.0	0.0	0

* The results obtained are satisfactory as per standard requirements.

Note:-
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R RUDRAPRASAD
Authorized Signatory
Technical Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS MACADAM

Lab ID	:	**CP-RW-2022-08-02-03**	**Date: 27-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.	
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64	
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	23-06-2022	
Type of Mix	:	BM (Bituminous Macadam)	
Date of Test	:	23-06-2022	

Table 500-6 : Physical Requirements fo Coarse Aggregate for Bituminous Macadam

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	13.8	Combined Flakiness & Elongation Index for BM is Maximum 35%	IS:2386 Part I
	Elongation Index	7.2		
Strength	Aggregate Impact Value	25.2	Maximum 30%	IS:2386 Part IV
Specific gravity	Specific gravity	2.51	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.17	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Technical Manager

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 27-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-2022
Type of Mix	:	BM(Bitumnous Macadam)
Date of Test	:	23-06-2022
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.0	2.0	98.2	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 27-06-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	23-06-2022
Type of Mix	:	BM (Bituminous Mecadam)
Date of Test	:	23-06-2022

The results of the tests conducted on the Bituminous Macadam mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.82	9KN(Min)
2	Marshal flow at 60°C, mm	3.54	3.87	2-4
3	Percent air Voids	4.56	4.17	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.54	14.76	13-15
5	Percent Voids filled with Bitumen(VFB %)	68.98	70.28	65-75
6	Density, g/cc	2.42	2.40	–

* The results obtained are satisfactory as per standard requirements.

Note:-

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End of Report

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-08-02-03** **Date: 02-07-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 30-06-2022

Type of Mix : BC-Plant (Bituminous Concrete)

Date of Test : 30-06-2022

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-08-02-03**	**Date: 04-07-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.	
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.	
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64	
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	30-06-2022	
Type of Mix	:	BC(Bitumenous Concrete)	
Date of Test	:	30-06-2022	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Date: 04-07-2022

Lab ID	:	**CP-RW-2022-08-02-03**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	30-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	30-06-2022

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

Note:-

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-08-02-03** **Date: 04-07-2022**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.
Agency	:	M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64
Customer Reference	:	BBMP/EE/BTP/WO/59/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	30-06-2022
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	30-06-2022

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : **CP-RW-2022-08-02-03** **Date: 11-07-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 09-07-2022

Type of Mix : BM (Bituminous Macadam)

Date of Test : 09-07-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	482	480
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	3.6	4.00
4	Average percentage	%	3.80	

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Lab ID : CP-RW-2022-08-02-03 Date: 11-07-2022

AFTER EXTRACTION(Trail-1)

Weight of Sample : 482 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.4	61.6	56-88
4.75	191	376	78.0	22.0	16-36
2.36	28	404	83.8	16.2	4-19
0.3	32	436	90.5	9.5	2-10
0.075	31	467	96.9	3.1	0-8

AFTER EXTRACTION(Trail-2)

Weight of Sample : 480 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0.0	100.0	100
19	38	38	7.9	92.1	90-100
13.2	147	185	38.5	61.5	56-88
4.75	191	376	78.3	21.7	16-36
2.36	28	404	84.2	15.8	4-19
0.3	34	438	91.3	8.8	2-10
0.075	30	468	97.5	2.5	0-8

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Note:-

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-08-02-03** **Date: 13-07-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Sample Condition : Satisfactory

Date of Receipt : 12-07-2022

Type of Mix : Tack coat

Date of Test : 12-07-2022

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2022-08-02-03** **Date: 13-07-2022**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at Simhadri layout, New Sai Garden Layout and Surrounding in Ward No.11, Kuvempunagara.

Agency : M/S Sathya Constructions (Prop) R Satheesh, No.600, Down Bazaar Road, Yelahanka, Bangalore-64

Customer Reference : BBMP/EE/BTP/WO/59/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 12-07-2022

Type of Mix : BC (Bituminous Concrete)

Date of Test : 12-07-2022

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

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Lab ID : **CP-RW-2022-08-02-03** **Date: 13-07-2022**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	62	70	14.9	85.1	70-88
4.75	112	182	38.6	61.4	53-71
2.36	85	267	56.7	43.3	42-58
1.18	29	296	62.8	37.2	34-48
0.6	11	307	65.2	34.8	26-38
0.3	46	353	74.9	25.1	18-28
0.15	45	398	84.5	15.5	12-20
0.075	42	440	93.4	6.6	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	62	70	14.8	85.2	70-88
4.75	112	182	38.6	61.4	53-71
2.36	80	262	55.5	44.5	42-58
1.18	29	291	61.7	38.3	34-48
0.6	11	302	64.0	36.0	26-38
0.3	46	348	73.7	26.3	18-28
0.15	45	393	83.3	16.7	12-20
0.075	55	448	94.9	5.1	4-10

* The results obtained are satisfactory as per standard requirements.

Note:-

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